

SEQUENCE LISTING

<110> Zhu, Zhen
Feng, Dejiang
Liu, Xiang

<120> A METHOD FOR BREEDING TRANSGENIC PLANT WITH HIGH
ANTIVIRAL PROPERTY AND THE APPLICATIONS OF THE METHOD

<130> 062331-5003-US

<150> PCT/CN2004/000069

<151> 2004-01-19

<150> CN 03100708.2

<151> 2003-01-21

<160> 9

<170> PatentIn version 3.3

<210> 1

<211> 731

<212> DNA

<213> Potexvirus, Potato virus X

```

<400> 1
gctctagaga tgtcagcacc agctagcaca acacagccca taggggtcaac tacctcaact      60
accacaaaaa ctgcaggcgc aactcctgcc acagcttcag gcctgttcac catcccggat      120
ggggatttct ttagtacagc ccgtgccata gtagccagca atgctgtcgc aacaaatgag      180
gacctcagca agattgaggc tatttggaag gacatgaagg tgcccacaga cactatggca      240
caggctgctt gggacttagt cagacactgt gctgatgtag gatcatccgc tcaaacagaa      300
atgatagata cagggtcccta ttccaacggc atcagcagag ctagactggc agcagcaatt      360
aaagaggtgt gcacacttag gcaattttgc atgaagtatg ctccagtggg atggaactgg      420
atgttaacta acaacagtcc acctgctaac tggcaagcac aaggtttcaa gcctgagcac      480
aaattcgctg cattcgactt cttcaatgga gtcaccaacc cagctgccat catgcccaaa      540
gaggggctca tccggccacc gtctgaagct gaaatgaatg ctgcccacaa tgctgccttt      600
gtgaagatta caaaggccag ggcacaatcc aacgactttg ccagcctaga tgcagctgtc      660
actcgaggtc gtatcactgg aacaacaacc gctgaggctg ttgtcactct accaccacca      720
taaggtagcc c                                                    731

```

<210> 2

<211> 731

<212> DNA

<213> Artificial sequence

<220>

<223> PVX coat protein gene with mutation

<400> 2

```
gctctagaga tgtcagcgcc agcgagcaca acacagccca taggggtcaac tacctcaact      60
accacaaaaa ctgcaggcgc gacgccggcg acagcgtcag gcctgttcac catcccggat      120
ggggatttct ttagtacagc ccgtgccata gtagccagca atgctgtcgc aacaaatgag      180
gacctcagca agattgaggc tatttggaag gacatgaagg tgcccacaga cactatggca      240
caggctgctt gggacttagt cagacactgt gctgatgtag gatcatccgc tcaaacagaa      300
atgatagata caggtcacctt ttccaacggc atcagcagag ctagactggc ggcggcgatt      360
aaagagggtgt gcacacttag gcaattttgc atgaagtatg ctccagtggg atggaactgg      420
atgttaacga acaactcgcc gccggcgaac tggcaagcac aaggtttcaa gcctgagcac      480
aaattcgctg cattcgactt cttcaatgga gtcaccaacc cagctgccat catgccc aaa      540
gaggggctca tccggccacc gtctgaagct gaaatgaatg ctgccc aaac tgctgccttt      600
gtgaagatta caaaggccag ggcacaatcc aacgactttg ccagcctaga tgcagctgtc      660
actcgaggtc gtatcactgg aacaacaacc gctgaggctg ttgtcactct accaccacca      720
taaggtaccc c                                                                731
```

<210> 3

<211> 32

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 3

```
gctctagaga tgtcagcacc agctagcaca ac                                     32
```

<210> 4

<211> 27

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 4

```
gggggtaccct ggtgggtggta gagtgac                                     27
```

<210> 5
<211> 32
<212> DNA
<213> Artificial sequence

<220>
<223> Primer

<400> 5
gctctagaga tgtcagcgcc agcgagcaca ac

32

<210> 6
<211> 22
<212> DNA
<213> Artificial sequence

<220>
<223> Primer

<400> 6
aacaggcctg acgctgtcgc ag

22

<210> 7
<211> 32
<212> DNA
<213> Artificial sequence

<220>
<223> Primer

<400> 7
agtgtgcaca cctctttaat cgccgccgcc ag

32

<210> 8
<211> 32
<212> DNA
<213> Artificial sequence

<220>
<223> Primer

<400> 8
aaaactgcag gcgcgacgcc ggcgacagcg tc

32

<210> 9
<211> 33
<212> DNA
<213> Artificial sequence

<220>
<223> Primer

<400> 9

gatgttaacg aacaactcgc cgccggcgaa ctg